

TEXAS FOREST SERVICE  
Recommendations for Cutting and Spraying of Trees  
Infested by Southern Pine Beetle

1. Suggested Crew Organization:

A three-man crew is best with one man to operate the power saw, one using spray and the third to turn logs to be sprayed. The third man should be the supervisor so he can mark infested trees and supervise the work.

2. Recommended Chemical Treatment:

The best chemical is a mixture of No. 2 fuel oil and 11% Benzene Hexachloride (BHC). The correct mixture is one (1) gallon of BHC to forty (40) gallons of oil. (It takes approximately  $1\frac{1}{2}$  gallons of mixed solution to spray an average size tree).

3. Equipment Needed:

1 - Power saw or other type of felling saw

1 - Axe

1 - Cant hook

1 - Sprayer, garden type pressure, preferable stainless steel or brass with neoprene hose. The chemical will soon eat out other types of containers and hoses.

4. Steps to be followed in treating the infested trees:

a. Cut and fell tree, cut into lengths that can be easily turned or if cutting for forest products, cut into acceptable lengths.

b. Then spray the bark of the entire tree, logs, top and limbs to 2-inch diameter. Spray the entire bark surface including stumps, top and small limbs above to 2 inches diameter and loose bark that has fallen from the tree. The BHC solution should be applied until the bark is soaked and there is some run-off. The thick bark portion should be sprayed twice to be sure the needed soaking is given. After the top surface of the trunk is sprayed, the log should be turned and the other area sprayed.

c. Only one tree at a time should be felled in a place. Spray it before felling another into the same area. This helps prevent part of the trees being unsprayed.

d. Keep spray nozzle about one foot from the bark surface.

e. All trees cut should be sprayed before leaving the job for the day to keep from leaving some trees unsprayed. Unsprayed trees will allow beetles to escape and attack other trees.

5. The following is available from the Texas Forest Service at Woodville:

a. On-the-ground training of crews in insect identification and control technique.

b. Information on sources of supplies and materials.

c. Mixed solution of BHC and diesel oil at a cost of 18¢ per gallon plus deposit on drum.